



Patent

Attorney Docket No. 82508
Customer No. 23685

TRANSMITTAL LETTER

Inventor: Reimo Tetzner et al.
Serial No: 10/568,300
Filed: February 15, 2006
For: METHOD FOR THE DETECTION OF CYTOSINE METHYLATIONS IN DNA

Examiner: Katherine D. Salmon
Group Art Unit: 1634
Confirmation No: 7918

Mail Stop Amendment
Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

Dear Sir:

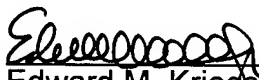
Transmitted herewith for the above-identified patent application are the following:

An Information Disclosure Statement
PTO Form PTO/SB/08A (1 sheet)
PTO Form PTO/SB/08B (2 sheets)
Copies of 17 documents
A return postcard

The item(s) checked below are appropriate:

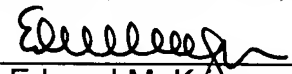
- an
1. ☐ Applicant(s) hereby petition(s) for a () month extension of time to respond to
 2. ☒ Please charge any fees or costs not accounted for to Deposit Account No. 11-1755.
 3. ☒ Applicant is a small entity.

Date: September 19, 2007


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Edward M. Kriegsmann



PATENT
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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of:)
REIMO TETZNER ET AL.)
Serial No.: 10/568,300) Group Art Unit: 1634
Filed: February 15, 2006) Examiner: Katherine D. Salmon
For: METHOD FOR THE DETECTION) Confirmation Number: 7918
OF CYTOSINE METHYLATIONS)
IN DNA)

Mail Stop Amendment
Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

Sir:

INFORMATION DISCLOSURE STATEMENT

In accordance with the provisions of 37 C.F.R. 1.56, 1.97 and 1.98, Applicants disclose the following information:

1. U.S. Patent No. 6,331,393 B1, inventors Laird et al., issued December 18, 2001 (cited in International Search Report);
2. U.S. Patent Application Publication No. US 2003/087240 A1, inventors Whitcombe et al., published May 8, 2003 (cited in International Search Report);
3. PCT International Publication No. WO 99/66071 A1, published December 23, 1999 (cited in International Search Report);
4. German Offenlegungsschrift DE 199 51 189 A1, published May 3, 2001 (together with English-language abstract);
5. Lo et al., "Quantitative Analysis of Aberrant p16 Methylation Using Real-Time Quantitative Methylation-specific Polymerase Chain Reaction," Cancer Research, 59:3899-903 (1999) (cited in International Search Report);
6. Eads et al., "MethyLight: a high-throughput assay to measure DNA methylation," Nucleic Acids Research, 28(8):e32(i-viii) (2000) (cited in International Search Report);

7. Solinas et al., "Duplex Scorpion primers in SNP analysis and FRET applications," Nucleic Acids Research, 29(20):e96(1-9) (2001) (cited in International Search Report);
8. Piñero et al., "Analytical challenges for the detection of genetic modifications in food and food products," American Biotechnology Laboratory, 21(4):40-41 (2003) (cited in International Search Report);
9. McKeen et al., "Synthesis of fluorophore and quencher monomers for use in Scorpion primers and nucleic acid structural probes," Organic & Biomolecular Chemistry, 1(13):2267-75 (2003) (cited in International Search Report);
10. Whitcombe et al., "Detection of PCR products using self-probing amplicons and fluorescence," Nature Biotechnology, 17(8):804-7 (1999) (cited in International Search Report);
11. Thelwell et al., "Mode of action and application of Scorpion primers to mutation detection," Nucleic Acids Research, 28(19):3752-61 (2000) (cited in International Search Report);
12. Walker, "Real-Time and Quantitative PCR: Applications to Mechanism-Based Toxicology," Journal of Biochemical and Molecular Toxicology, 15(3):121-7 (2001) (cited in International Search Report);
13. Cottrell et al., "Sensitive Detection of DNA Methylation," Ann. N.Y. Acad. Sci., 983:120-30 (2003) (cited in International Search Report);
14. Liu et al., "Polymerase chain reaction-based methods of DNA methylation analysis," Analytical Biochemistry, 317(2):259-65 (2003) (cited in International Search Report);
15. Laird et al., "The Power and the Promise of DNA Methylation Markers," Nature Reviews Cancer, 3(4):253-66 (2003) (cited in International Search Report);
16. Rand et al., "Conversion-specific detection of DNA methylation using real-time polymerase chain reaction (ConLight-MSP) to avoid false positives," Methods, 27:114-20 (2002) (cited in International Search Report);
17. Trinh et al., "DNA Methylation Analysis by MethyLight Technology," Methods, 25:456-62 (2001) (cited in International Search Report);
18. Bransteitter et al., "Activation-induced cytidine deaminase deaminates deoxycytidine on single-stranded DNA but requires the action of RNase," PNAS, 100(7):4102-7 (2003) (cited in International Search Report); and
19. Pham et al., "Processive AID-catalysed cytosine deamination on single-stranded DNA simulates somatic hypermutation," Nature, 424(6944):103-7 (2003) (cited in International Search Report).

Copies of above document nos. 1-2 are not being provided with this paper since these documents are U.S. patents or published U.S. patent applications, for which copies are not required. On the other hand, copies of above document nos. 3-19 are being provided with this paper. In addition, all of the above documents are listed on the enclosed PTO Forms PTO/SB/08A and PTO/SB/08B. Applicants respectfully request that the Examiner consider the above-listed documents and evidence that consideration by making appropriate notations on the enclosed forms.

This submission does not represent that a search has been made or that no better prior art exists and does not constitute an admission that the above-listed documents constitute "prior art."

Applicants reserve the right to take appropriate action to establish the patentability of the disclosed invention over the above-listed documents, should the documents be applied against the claims of the present invention.

It is not believed that a fee is due at this time. However, if there are any fees due in connection with the filing of this paper that are not accounted for, the Examiner is authorized to charge the fees to our Deposit Account No. 11-1755. If a fee is required for an extension of time under 37 C.F.R. 1.136 that is not accounted for already, such an extension of time is requested and the fee should also be charged to our Deposit Account.

Respectfully submitted,

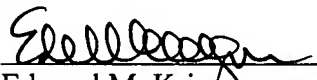
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Dated: September 19, 2007

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Edward M. Kriegsman